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TI Copper alloys as lead-frame materials of semiconductor devices

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AB Cu alloys containing 0.02-0.3% Ag and 0.03-0.3% Sn (with Ag + Sn 0.1-0.5%) are used as packaged lead-frame materials for semiconductor devices. Thus, cast ingot (140 + 140 + 2000 mm) of Cu alloy [85759-48-4] containing 0.11% Sn and 0.15% Ag was hot-rolled to a 8 mm thick plate, cold-rolled, internally softened, and cold-rolled to sheet 0.6 mm thick. The sheet was annealed 3 h at 420°, and temper-rolled to 0.4 mm thickness. This sheet had thermal expansion coefficient 1.77 + 10-5/degr  e, tensile strength 36.5 kg/mm², and elec. conductivity 89% of International Annealed Cu Standard